CLAIMS

What is claimed is:

- 1. A method of authenticating optical storage media comprising:
 reading a first set of data from a locus on an optical storage medium; and
 re-reading a second set of data from the locus, wherein the second set of data is
 different from the first set of data.
- 10 2. The method of claim 1 wherein sampling the locus comprises sampling a data bit.
 - 3. The method of claim 1 wherein sampling the locus comprises sampling a data byte.
- 15 4. The method of claim 1 wherein sampling the locus comprises sampling a data frame.
 - 5. The method of claim 1 wherein sampling the locus comprises sampling a data block.
 - 6. The method of claim 1 wherein sampling the locus comprises sampling a data sector.
 - 7. The method of claim 1 further comprising re-reading a second locus.
 - 8. The method of claim 1 wherein reading the first set of data produces a signal that is inadequate to provide for an intended use of the data stored on the medium.
- 9. The method of claim 8 wherein detecting the second set of data produces a signal that is adequate to provide for an intended use of the data stored on the medium.

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- 10. The method of claim 1 wherein detecting the second set of data comprises reading at least a portion of a file allocation statement.
- 11. The method of claim 1 wherein re-reading the locus occurs within about one second of sampling.
 - 12. The method of claim 11 wherein re-reading the locus occurs within about ten milliseconds of sampling.
- 10 13. The method of claim 12 wherein re-reading the locus occurs within about one millisecond of sampling.
 - 14. The method of claim 1 further comprising providing the optical storage medium with a light-sensitive compound.
 - 15. The method of claim 14 wherein reading the second set of comprises reading a signal from the light-sensitive compound.
- 16. The method of claim 14 further comprising providing light-sensitive compound in the optical path of the locus and an optical detector.
 - 17. The method of claim 14 wherein the light-sensitive compound has an emission wavelength at a wavelength detectable by an optical reader.
- 25 18. The method of claim 14 wherein the light-sensitive compound absorbs light that, in the absence of the light-sensitive compound, would be detected by a reader.
 - 19. The method of claim 17 wherein a light emission from the compound provides at least a portion of the second data set.

- 20. The method of claim 17 wherein the light-sensitive compound is excitable by light emitted by the optical reader.
- 21. The method of claim 14 wherein the light-sensitive compound has an emission wavelength from about 770 nm to about 830 nm.
 - 22. The method of claim 21 wherein the light-sensitive compound has an emission wavelength of about 780 nm.
- 10 23. The method of claim 14 wherein the light-sensitive compound has an emission wavelength from about 630 nm to about 650 nm.
 - 24. The method of claim 14 wherein the light-sensitive compound has an emission wavelength of about 530 nm.
 - 25. The method of claim 14 wherein the light-sensitive compound has an emission wavelength in the near infrared range.
 - 26. The method of claim 14 wherein the compound is luminescent.

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- 27. The method of claim 14 wherein the compound is phosphorescent.
- 28. The method of claim 19 wherein the compound is excitable at a wavelength of about 780 nm or about 530 nm.
- 29. The method of claim 14 wherein the compound has an emission wavelength of about 780 nm, or about 530 nm, or both.
- 30. The method of claim 14 wherein the compound has an emission wavelength of about 530 nm.

- 31. The method of claim 14 wherein the compound has emission wavelengths of about 780 nm and about 530 nm.
- 32. The method of claim 1 wherein the optical recording medium is selected from the group consisting of CD, CD-Audio, CD-ROM, CD-G, CD-i, CD-MO, CD-R, CD-RW, DVD, DVD-5, DVD-9, DVD-10, DVD-18 and DVD-ROM.
 - 33. The method of claim 1 wherein the optical recording medium is a CD.
 - 34. The method of claim 1 wherein the optical recording medium is a CD-ROM.
 - 35. The method of claim 1 wherein the optical recording medium is a DVD.
 - 36. The method of claim 14 wherein the dye is a cyanine compound.
 - 37. The method of claim 14 wherein the compound is selected from the group consisting of indodicarbocyanines, benzindodicarbocyanines and hybrids thereof.
 - 38. The method of claim 14 wherein the compound is an indodicarbocyanine.
 - 39. The method of claim 14 wherein the compound is an benzindodicarbocyanine.
 - 40. The method of claim 14 wherein the compound is a hybrid of an indodicarbocyanine and a benzindodicarbocyanine.
 - 41. An optical disk comprising:
 - a substrate;
 - a data track disposed on the substrate; and
- a light-sensitive compound disposed on at least a portion of the disk and cooperating with the data track to alter the data upon excitation with a suitable stimulus?

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- 42. The disk of claim 41 wherein the data track is injection molded.
- 43. The disk of claim 41 wherein the data track is formed via a recording dye.
- 5 44. The disk of claim 41 wherein at least a portion of the light-sensitive compound is active.
 - 46. The disk of claim 45 wherein at least a portion of the light-sensitive compound is phosphorescent.
 - 47. The disk of claim 45 wherein at least a portion of the light-sensitive compound is fluorescent.

- 49. The disk of claim 41 wherein at least a portion of the light-sensitive compound is excitable by a light source emitting light at a wavelength between about 770 and about 830 nm.
 - 50. The disk of claim 44 wherein at least a portion of the light-sensitive compound is excitable by a light source emitting light at a wavelength between about 630 and about 650 nm.
- 51. The disk of claim 41 wherein the light-sensitive compound is excitable by a light source emitting light at a wavelength between about 780 nm and by a light source emitting at about 530 nm.
- 52. The disk of claim 41 wherein at least a portion of the light-sensitive compound is adapted to emit at 780 nm.
 - 53. The disk of claim 41 wherein at least a portion of the light-sensitive compound is adapted to emit at 530 nm.
- The disk of claim 41 wherein at least a portion of the light-sensitive compound is adapted to emit at both about 780 nm and about 530 nm.

- 55. The disk of claim 41 wherein the light-sensitive compound comprises a cyanine compound.
- 5 56. The disk of claim 41 wherein the light-sensitive compound comprises indodicarbocyanines.
 - 57. The disk of claim 41 wherein the light-sensitive compound is benzindodicarbocyanines.

- 58. The disk of claim 41 wherein the light-sensitive compound is a hybrid of indodicarbocyanines and benzindodicarbocyanines.
- 59. The disk of claim 41 wherein a portion of the light-sensitive compound is adapted to be selectively activated.
 - 60. The disk of claim 59 wherein the light-sensitive compound is activated by crosslinking.
- The disk of claim 59 wherein the light-sensitive compound is activated by laser catalysis.
 - 62. The disk of claim 59 wherein the light-sensitive compound is activated to provide at least a portion of a file allocation statement upon re-reading.
 - 63. The disk of claim 41 wherein the data track includes instructions to re-read a locus on the disk.
- 64. The disk of claim 63 wherein activated light-sensitive compound is disposed over at least a portion of the locus.

- 65. The disk of claim 64 wherein the activated light-sensitive compound is a delayed luminescent or phosphorescent dye.
- 66. The disk of claim 65 wherein the activated light-sensitive compound is interpretable by a reader to provide a response different from that provided by the data track.
 - 67. The disk of claim 63 wherein the data track includes instructions to discontinue reading the data track if the reading upon re-reading is identical to an initial reading.
- 10 68. The disk of claim 63 wherein the data track includes instructions to continue accessing the data on the disk if the data detected upon re-reading is different from the initially-read data.
- 70. The disk of claim 41 wherein the light-sensitive compound is less than about 120 nm in thickness.
 - 71. The disk of claim 70 wherein the light-sensitive compound is less than about 10 nm in thickness.
 - 72. The disk of claim 71 wherein the light-sensitive compound is less than about 1 nm in thickness.
 - 69. The disk of claim 41 wherein the light-sensitive compound is disposed on the disk by spin coating.

73. A method of treating an optical storage medium comprising:
recording data on an optical storage medium;
applying a light-sensitive compound to the optical storage medium; and
selectively activating at least a portion of the light-sensitive compound.

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- 74. The method of claim 73 wherein the light-sensitive compound is activated by crosslinking.
- 75. The method of claim 74 wherein the light-sensitive compound is crosslinked by laser activation.
 - 76. An optical recording medium comprising:
 stored data; and
 means for altering, upon re-reading, data read from a locus on the medium.
 - 77. The optical recording medium of claim 76 wherein the data read from the locus on the medium is temporarily altered upon re-reading.

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- 78. An optical recording medium comprising a data track including readable data,
 wherein at least a portion of an output of the data track is predictably altered upon re-reading.
 - 79. The recording medium of claim 78 wherein the output is temporarily altered upon re-reading.
 - 80. The optical recording medium of claim 78 wherein the medium comprises a CD.
 - 81. The optical recording medium of claim 78 wherein the medium comprises a DVD.
 - 82. The optical recording medium of claim 78 further comprising a light sensitive light-sensitive compound.
 - 83. A method of authenticating an optical storage medium, the medium having a first plane including data and a second plane having a light-sensitive compound, the method comprising:

reading data from the first plane on an optical medium;

exciting the light-sensitive compound in a second plane on the optical medium; and reading data from the second plane of the optical medium.

84. The method of claim 80 comprising instructing a reader to alter a focal length of a laser.